

STEREO MOC Status Report  
Time Period: 2020:083 - 2020:089

STEREO Ahead (STA) Status:

1. The following Ground System anomalies/events occurred during this reporting period:

- On day 083, during the DSS-63 support, turbo decoder lock was lost intermittently from 2114z through 2115z. This anomaly resulted in the loss of 25 frames of SSR data.
- On day 085, during the DSS-63 support, turbo decoder lock was lost briefly at 1932z. This anomaly resulted in the loss of nine frames of SSR data.
- On day 087, during the DSS-14 support, the antenna was declared red due to an Antenna Servo Drive failure. This anomaly resulted in the loss of 2.2 hours of real-time telemetry, command and tracking data. On the subsequent DSS-63 support, MOPs repositioned the SSR pointers and all affected DSS-14 SSR data was recovered. See DR #G120999 for more information.
- On day 087, during the DSS-63 support, turbo decoder lock was lost briefly at 1549z. This anomaly resulted in the loss of two frames of SSR data.
- On day 088, during the DSS-14 support, the downlink was lost between 0412z and 0429z when the antenna was halted inadvertently. This anomaly resulted in the loss of 30 minutes of real-time telemetry, command, tracking, and SSR data. On the subsequent DSS-55 support, MOPs repositioned the SSR pointers and all affected DSS-14 SSR data was recovered. See DR #C114915 for more information.
- On day 089, during the DSS-63 support, turbo decoder lock was lost briefly at 1253z. This anomaly resulted in the loss of 69 frames of SSR data. See DR #M112130 for more information.

2. The following spacecraft/instrument events occurred during this week. The Ahead observatory operated nominally during this week.

- As of day 089, all PLASTIC systems are behaving well, except there is a high background count rate, which the team is continuing to monitor.
- The average daily science data return for Ahead was 7.4 Gbits during this week.